

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	13	ensinger-w\$.in.	USPAT	OR	OFF	2006/10/23 11:57
S2	21	ensinger-w\$.in.	US-PGPUB; USPAT	OR	OFF	2006/01/31 12:57
S3	17	("20020049030"   "4212137"   "5643061"   "5695392"   "5993302"   "6030280"   "6068548"   "6186880"   "6251215"   "6264540"   "6277008"   "6354927"   "6390904"   "6390908"   "6439984"   "6471566"   "6585850"). PN. OR ("6913669").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/03 11:05
S4	14	"0747167" "0841123" "19827308" "2001121411"	EPO; JPO; DERWENT	OR	OFF	2006/01/31 12:53
S5	16	"747167" "841123" "19827308" "2001121411"	EPO; JPO; DERWENT	OR	OFF	2006/01/31 12:53
S6	12	S5 not S4	EPO; JPO; DERWENT	OR	OFF	2006/01/31 12:53
S7	75	156/345.14	US-PGPUB; USPAT	OR	OFF	2006/01/31 13:05
S8	5	10/464223 09/917732 09/848830	US-PGPUB; USPAT	OR	OFF	2006/01/31 13:06
S9	388	beads with (ring carrier) and (156/345.14 polish\$3 planariz\$5 abrad\$3)	USPAT	OR	OFF	2006/02/01 14:04
S10	2695	"friction welding"	US-PGPUB; USPAT	OR	OFF	2006/02/02 14:15
S11	169	S10 and (polish\$3 abrad\$3 planariz\$5)	US-PGPUB; USPAT	OR	OFF	2006/02/02 12:44
S12	19648	(spray\$3 coat\$3) with (beads particle\$1) with (metal\$1)	US-PGPUB; USPAT	OR	OFF	2006/02/02 12:29
S13	3456	S12 and (polish\$3 abrad\$3 planariz\$5)	US-PGPUB; USPAT	OR	OFF	2006/02/02 12:30
S14	1000	S13 and (wafer\$1 semiconductor\$1)	US-PGPUB; USPAT	OR	OFF	2006/02/02 12:35
S15	0	156/345.14 and ring with (metal and beads)	US-PGPUB; USPAT	OR	OFF	2006/02/02 12:35
S16	37	(polish\$3 abrad\$3 planariz\$5) and ring with (metal and beads)	US-PGPUB; USPAT	OR	OFF	2006/02/02 12:40
S17	11778	(join\$3 coupl\$3 seal\$3) with (bead\$1 particle\$1 spher\$4) with (coat\$3 layer\$1 film\$1)	US-PGPUB; USPAT	OR	OFF	2006/02/02 12:44
S18	377	(join\$3 coupl\$3 seal\$3) with (bead\$1 particle\$1 spher\$4) with (coat\$3 layer\$1 film\$1) same (weld\$3)	US-PGPUB; USPAT	OR	OFF	2006/02/02 12:42

## EAST Search History

S19	2	S18 and S11	US-PGPUB; USPAT	OR	OFF	2006/02/02 12:42
S20	1	"4551189".pn.	US-PGPUB; USPAT	OR	OFF	2006/02/02 12:44
S21	353	(join\$3 coupl\$3 seal\$3) with (bead\$1 particle\$1 spher\$4) with (coat\$3 layer\$1 film\$1) with (spray\$3)	US-PGPUB; USPAT	OR	OFF	2006/02/02 12:45
S22	34	S21 and (wafer\$1 semiconductor\$1)	US-PGPUB; USPAT	OR	OFF	2006/02/02 12:50
S23	265	(coat\$3 layer film) with (bead\$1 particle\$1) with (pretreat\$3)	US-PGPUB; USPAT	OR	OFF	2006/02/02 13:08
S24	698	(retainer or "retaining ring") with spray\$3	US-PGPUB; USPAT	OR	OFF	2006/02/02 13:09
S25	58	(retainer or "retaining ring") with spray\$3 with (coat\$3 film layer)	US-PGPUB; USPAT	OR	OFF	2006/02/02 13:37
S26	0	(156/345.14) with spray\$3 with (coat\$3 film layer)	US-PGPUB; USPAT	OR	OFF	2006/02/02 13:13
S27	1	(retainer or "retaining ring") with spray\$3 with (coat\$3 film layer) with (cu copper metal)	US-PGPUB; USPAT	OR	OFF	2006/02/02 13:37
S28	145	(annular ring) with spray\$3 with (coat\$3 film layer) with (cu copper metal)	US-PGPUB; USPAT	OR	OFF	2006/02/02 14:25
S29	1	"friction welding" and "4390384".pn.	US-PGPUB; USPAT	OR	OFF	2006/02/02 14:15
S30	1	"6835125".pn.	US-PGPUB; USPAT	OR	OFF	2006/02/02 14:25
S31	19	("5205082"   "5423558"   "5584751"   "5605488"   "5635083"   "5643061"   "5645474"   "5695392"   "5759918"   "5795215"   "5851140"   "5997384"   "6019670"   "6251215"   "6277008"   "6390904"   "6471566"   "6585850"   "6602114").PN. OR ("6835125").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/02 14:26
S32	4	S31 and spray\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/02 14:26
S33	17	("20020049030"   "4212137"   "5643061"   "5695392"   "5993302"   "6030280"   "6068548"   "6186880"   "6251215"   "6264540"   "6277008"   "6354927"   "6390904"   "6390908"   "6439984"   "6471566"   "6585850"). PN. OR ("6913669").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/02 17:40
S34	9	S33 and (collar flange groove shrink)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/02 17:40

## EAST Search History

S35	17	("20020049030"   "4212137"   "5643061"   "5695392"   "5993302"   "6030280"   "6068548"   "6186880"   "6251215"   "6264540"   "6277008"   "6354927"   "6390904"   "6390908"   "6439984"   "6471566"   "6585850"). PN. OR ("6913669").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/03 11:06
S36	6	S35 and (filling fillable fill curing curable cure\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/03 11:07
S37	39786	(retainer "retaining ring") and (filling fillable fill curing curable cure\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/03 11:08
S38	2920	(retainer "retaining ring") with (filling fillable fill curing curable cure\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/03 11:08
S39	83	S38 and (wafer semiconductor)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/03 13:03
S40	0	"200200837"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/03 13:04
S41	0	"2002/000837"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/03 13:04
S42	5	("6824458" "6913669" "20040259485" "6390908" "6835125").pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/23 10:01
S43	5	("20030070757" "6390908" "6251215" "20020049030" "6835125").pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/19 15:19
S44	1	10/814587	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/23 10:01
S45	21	ensinger-w\$.in.	US-PGPUB; USPAT	OR	OFF	2006/10/23 11:57
S46	1301	(CMP polish\$3 planariz\$6) and (PPS PEEK) and (PTFE teflon polyimide nanoparticle\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/10 23:15
S47	96	(CMP polish\$3 planariz\$6) same (PPS PEEK) same(PTFE teflon polyimide nanoparticle\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/10 23:24
S48	10	("20020164939"   "20050113002"   "20050211377"   "20050215182"   "20050266783"   "5738574"   "6835125"   "6974371"   "7033252"   "7094139").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/10 23:26
S49	1	(US-20050266783-\$).did.	US-PGPUB	OR	OFF	2007/06/10 23:23

## EAST Search History

S50	2	S47 and S48	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/10 23:24
S51	2	(CMP polish\$3 planariz\$6) same (PPS PEEK) same(PTFE teflon polyimide nanoparticle\$1)	EPO; JPO; DERWENT	OR	OFF	2007/06/10 23:25
S52	4	("6565424" "6821192" "6974371" "7094139").pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/10 23:27